

# ASSOCIATE OF ARTS AND SCIENCES - PRE- ENGINEERING EMPHASIS REQUIREMENTS (AAS)

Code	Title	Units
<b>Emphasis Requirements <sup>1</sup></b>		
EGR 105	ENGINEERING FUNDAMENTALS	3
EGR 110	ENGINEERING GRAPHICS WITH COMPUTER AIDED DRAFTING	3
or CPS 216	PROBLEM SOLVING AND PROGRAMMING TECHNIQUES IN C++	
CHE 165	CHEMISTRY FOR ENGINEERS	5
MAT 234	CALCULUS OF SEVERAL VARIABLES	4
PHY 202	UNIVERSITY PHYSICS II	5
<b>Total Units</b>		<b>20</b>

Code	Title	Units
<b>Unique Requirements</b>		
MAT 221	CALCULUS AND ANALYTICAL GEOMETRY I	5
MAT 222	CALCULUS AND ANALYTICAL GEOMETRY II	5
PHY 201	UNIVERSITY PHYSICS I	5
<b>Select 3 units:</b>		<b>3</b>
EGR 201	STATICS	
EGR 203	MECHANICS OF MATERIALS	
EGR 282	ENGINEERING ECONOMICS	
MAT 271	ORDINARY DIFFERENTIAL EQUATIONS	
<b>Total Units</b>		<b>18</b>

<sup>1</sup> The Associate Of Arts and Science (AAS), Emphasis in Pre-Engineering provides the majority of the first two years of a four-year curriculum for students who wish to transfer to a four-year institution to earn a bachelor's degree in an engineering discipline. In addition to the engineering emphasis requirements, an additional 18 unique requirements serve as pre-requisites for a future engineering major and overlap with AAS requirements.